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54 **Process and apparatus for producing synthesis gas.**

57 A process for producing synthesis gas by catalytic reforming of hydrocarbons with steam in a reaction zone which is subjected to heat exchange with a combustion gas and recycling heat exchanged combustion gas to a combustion zone. The invention further relates to an apparatus suitable for said process.

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# EUROPEAN SEARCH REPORT

Application Number

EP 86 20 1425

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
A	US-A-3 582 296 (S. UMANO et al.) * claim 1 * ---	1	C 01 B 3/02
A	US-A-4 315 893 (R. A. MCCALLISTER) * column 3, lines 8-37 * -----	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			C 01 B 3/00
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 28-09-1989	Examiner CLEMENT J.P.
<b>CATEGORY OF CITED DOCUMENTS</b> X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document			